

#334

APOLLO 17

LACE MASS PEAK SUMMARY DATA

72-096C-08A

APOLLO 17 LM/ALSEP

MASS PEAK SUMMARY DATA ON TAPE

72-096C-08A

This data set has been restored. There were originally two 9-track, 1600 BPI tapes written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tapes were created on an IBM 360 computer and the restored tapes were created on an IBM 9021 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR005638	DS005638	D023425 D023426	1 2	05/22/73 - 09/01/73 05/22/73 - 09/02/73

REQ. AGENT
CMP

RAND NO.
RC5527

ACQ. AGENT
RNH

Apollo 17

LACE MASS PEAK SUMMARY DATA

72-096C-08A

This data set contains 2 tapes. The tapes are 1600 BPI, binary, 9 track with one file of data. The time spans and 'C' numbers for each tape are listed below.

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-23425	C-17551	05/24/73 - 09/03/73
D-23426	C-17552	05/24/73 - 09/03/73

72-096C-08H

LUNAR ATMOSPHERIC COMPOSITION EXPERIMENT

DESCRIPTION OF EXPERIMENT AND INSTRUMENT CHARACTERISTICS

Apollo 17 carried a miniature mass spectrometer, called the Lunar Atmospheric Composition Experiment (LACE), to the moon as part of the Apollo Lunar Surface Experiments Package (ALSEP) to study the composition and variations in the lunar atmosphere. The instrument was successfully deployed in the Taurus-Littrow Valley with its entrance aperture oriented upward to intercept and measure the downward flux of gases at the lunar surface.

Identification of gas molecules in the lunar atmosphere by species and determination of concentrations is accomplished by a miniature magnetic-deflection mass spectrometer. Gas molecules entering the instrument aperture are ionized by an electron bombardment ion source, collimated into a beam and sent through a magnetic analyzer to the detector system.

The ion source contains two tungsten (with 1% rhenium) filaments, selectable by command, as electron emitters. In the normal mode of operation, called the fixed mode, the electron bombardment energy is fixed at 70 electron volts. This produces a sensitivity to nitrogen of 5×10^{-5} amp/torr, sufficient to measure concentrations of gas species in the 10^{-15} torr range. An alternate mode, the cyclic mode, provides four different electron energies, 70, 27, 20, and 18 eV, which are cycled by successive sweeps of the mass spectrum. Identification of gases in a complex mass spectrum is greatly aided when the spectra are taken at several different electron ionization energies because cracking patterns of complex molecules are a strong function of the bombardment electron energy.

Voltage scan of the mass spectrum is employed utilizing a high voltage stepping power supply. The ion-accelerating voltage (sweep voltage) is varied in a stepwise manner through 1330 steps from 320 to 1420 volts with a dwell time of 0.6 sec per step. Each step is synchronized to a main frame of the telemetry format. Therefore, the telemetry word position serves as the identifier of atomic mass number. Ten steps of background counts (zero sweep voltage) and ten steps of an internal calibration frequency, are inserted between sweeps, making a total of 1350 steps per spectrum. Sweep time is 13.5 minutes. Because the instrument has three collector assemblies adjusted to collect ion beams, having passed through the magnetic analyzer, in the ratio 1:12:27.4, three mass ranges are scanned simultaneously, viz. 1 to 4, 12 to 48 and 27.4 to 110 amu.

In an alternate mode, the sweep voltage may be commanded to lock onto any of the 1350 steps enabling the instrument to continuously monitor any given mass number peak in the spectrum with a time resolution of 0.6 sec per sample. A one step advance command is also available. The lock mode permits high time resolution monitoring of mass peaks that may be suspected to be of volcanic origin.

Resolution of the analyzer is set at about 100 for the high mass channel at mass 82. This is defined as less than a 1% valley between peaks of equal amplitude at mass 82 and 83. Krypton is used to verify the resolution.

Standard ion counting techniques employing electron multipliers, pulse amplifiers, discriminators and counters are used, one system for each mass range. The number of counts accumulated per voltage step (0.6 sec) for each channel is stored in 21-bit accumulators until sampled by the telemetry system. Just prior to interrogation, the 21-bit word is converted to a

floating point number in base 2, reducing the data to a 10-bit word, consisting of a 6-bit number and a 4-bit multiplier. This scheme maintains 7-bit accuracy (1%) throughout the 21-bit (2×10^6) range of data counts.

Housekeeping circuits monitor 15 functions within the instrument (supply voltages, filament current, emission current, sweep voltage and several temperatures). One temperature sensor monitors the ion source temperature whose value is used in data reduction. Housekeeping words are sub-commutated, one each 90 main-frames requiring a full spectral scan time to read each monitor once.

Calibration of the instrument was performed at the NASA Langley Research Center (LRC) molecular beam facility. A molecular beam apparatus produces a beam of known flux in a liquid helium cryochamber. The instrument entrance aperture intercepts the beam at one end of the chamber. With known beam flux and ion source temperature, instrument calibration coefficients are determined. Variation of gas pressure in the molecular beam source chamber behind a porous silicate glass plug varies the beam flux and provides a test of the linearity of the instrument response. Good linearity was achieved up to 5×10^5 counts/sec where the onset of counter saturation occurs.

Calibrations were done with a number of gases that may be candidates for ambient lunar gases, e.g. Ar, CO₂, CO, Kr, Ne, N₂, and H₂. Helium calibrations are not possible with this system because no helium beam can be formed in the chamber since helium is not cryopumped at the wall temperature. Sensitivity to helium was determined in the UT-Dallas ultrahigh vacuum chamber by using the LRC absolute argon calibration of the instrument as a standard for calibrating an ionization pressure gage. The gage calibration for helium was subsequently inferred from the ratio of ionization cross sections for He and Ar. The resulting helium sensitivity is the ratio of the calibrated gage pressure to the helium counting rate.

LUNAR ATMOSPHERIC COMPOSITION EXPERIMENT

DATA HISTORY - OPERATIONAL HISTORY

The LACE instrument initial turn-on occurred on December 27, 1972 at 1807 GMT and continued throughout the first lunar night. Operation has been continuous during each lunar nighttime from shortly after sunset to approximately sunrise. During the April and September 1973 sunrise periods operation continued 4 or 5 hours into the daytime to track the behavior of argon. Daytime operation has been severely curtailed because of the high outgassing rates encountered as the site warms which produces a large artifact background that covers most of the ambient gas levels except helium. This relatively high background gas concentration would likely degrade the instrument ion source sensitivity if operated for long periods (hours) in this environment. Likewise, extended daytime operation is not possible because of a tendency for the electronics package to exceed the maximum allowable operating temperature. Three brief daytime operation periods, one in January, one in February and one in May, have given information on the daytime gas concentrations at the site. Table 1 gives a listing of the times the instrument has been operated during its first nine months on the lunar surface.

In general, the instrument has operated well. All housekeeping data has remained within bounds. A fortuitous occurrence, the slow evaporation of the tungsten filament which produces doubly charged tungsten peaks in the mass 91-93 range of the spectrum, has provided a constant check on the instrument sensitivity, which has remained very stable with time.

A variable background counting rate that appears at times on all three data channels has interferred with a smooth data reduction operation. The origin of these counts, which seems to vary with time in a not too predictable manner, is uncertain. It appears not to be a simple electronic noise coupling into the data counting system, but rather somehow related to the characteristics of the ion source. At times these background counts mask some of the smaller peaks at the low mass end of each channel. The high mass channel is relatively free from this interference, it being the most prevalent on the low mass output.

Data from the Apollo 17 Lunar Atmospheric Composition Experiment (LACE) was collected from January 1, 1973, thru nine lunations. The data from these lunations was reduced and summarized on to two magnetic tapes and 9 reels of microfilm, one reel per lunation.

The magnetic tapes were written in IBM 360 standard label format. The record format is variable block size. A logical record is 324 bytes and the blocksize is 3224 bytes. i.e. DCB = (RECFM = VBS, LRECL = 324, BLKSIZE = 3224) Tape No. 1 contains the summarized data from lunation 1 thru lunation 5. Tape No. 2 contains lunation 6 thru 9.

Each record gives a summary of the data obtained from one mass spectrum, formatted in 80 binary words of 4 bytes each.

The word assignments for the 80 word record is listed in the attached Table 1 along with a description of each word.

The microfilm is a printed record of the data on the summary tapes. A typical printout of the microfilm is also attached. The numbers inside the bubbles indicate the word assignment at the 80 word record on the magnetic tapes.

WORD	FORMAT	DATA	EXPLANATION
1	I	Day	
2	I	Hour	
3	I	Minute	
4	I	Sec	
5	I	mSec	
6	R*4	Normal elevation	
7	R*4	Solar Azimuth	Solar ephemeris data for the Apollo 17 site
8	R*4	Solar Zenith	
9	R*4	Temperature coef.	$\sqrt{T(\text{ion source})/T(\text{moon})}$
10	I	Spectrum quality flag	cf. note a.
11	I	Spectrum sync flag	cf. note b.
12	I	Housekeeping sync flag (AM01)	Housekeeping data in ALSEP
13	I	Instrument current (AM02)	pcm format (0 - 255 counts)
14	I	Ion pump current (AM03)	
15	I	Ion pump voltage (AM04)	
16	I	Base plate temp (AM05)	
17	I	Ion source temp. (AM06)	
18	I	+12 VDC (AM07)	
19	I	+5VDC (AM08)	
20	I	-12VDC (AM09)	
21	I	-15VDC (AM10)	
22	I	Emission current (AM11)	
23	I	Fil. 1 current (AM12)	
24	I	Fil. 2 current (AM13)	
25	I	Multiplier voltage (AM14)	
26	I	Electronics temp. (AM15)	
27	-	--	
28	I	V1	
29	I	V2	
30	I	V3	
31	I	V4	
32	I	V5	
33	I	V6	
34	I	V7	

WORD	FORMAT	DATA	EXPLANATION
35	I	V8	
36	I	V9	
37	I	V10	
38	I	V11	
39	I	V12	
40	I	V13	
41	I	V14	
42	I	V15	
43	I	V16	(V16 = V1 of next spectrum)
44	R*4	4 AMU	
45	R*4	Background at 28 AMU	
46	R*4	28 AMU	
47	R*4	32 AMU	
48	R*4	35 AMU	
49	R*4	35s AMU	
50	R*4	36 AMU	
51	R*4	37 AMU	
52	R*4	37s AMU	
53	R*4	38 AMU	
54	R*4	40 AMU	
55	R*4	44 AMU	
56	--	--	
47	--	--	
48	R*4	92 AMU	
59	--	--	
60	R*4	Helium	
61	R*4	^{36}Ar (equivalent)	
62	R*4	^{38}Ar (equivalent)	
63	R*4	^{40}Ar	
64	--	--	
65	--	--	
66	R*4	Lunar surface temp ($^{\circ}\text{k}$)	Theoretical model
67	R*4	Ion source temp ($^{\circ}\text{C}$)	Engineering data
68	R*4	Base plate temp ($^{\circ}\text{C}$)	
69	R*4 Ele	Electronics temp ($^{\circ}\text{C}$)	
70	R*4	Radiator plate temp ($^{\circ}\text{C}$)	

TABLE 1 (C . .)

ORD	FORMAT	DATA	EXPLANATION
71	R*4	A ₀	
72	R*4	A ₁	Peak location = A ₀ + A ₁ /mass
73	I	STATUS (start of spectrum)	cf. note c.
74	I	STATUS (end of spectrum)	
75	I	No. of commands during spectrum	
76	I	Tracking station ID	
77	I	SYNC/STATUS FLAG	cf. note d.
78	I	Lunation number	
79	R4	Location of 28 AMU peak	
80	--	--	

NOTES

a. Spectrum quality flag (word 10) gives the result of an attempt to locate the 28 AMU and 44 AMU peaks in the mid-mass channel spectrum.

0 = bad data

28 = only the 28 AMU peak was found

44 = only the 44 AMU peak was found

2844 = normal spectrum with both 28 AMU and 44 AMU peaks found

b. Spectrum sync flag (word 11) gives the condition of the spectrum synchronization code at the start and end of the spectrum.

0 = normal

1 = sync at start only

2 = sync at end only

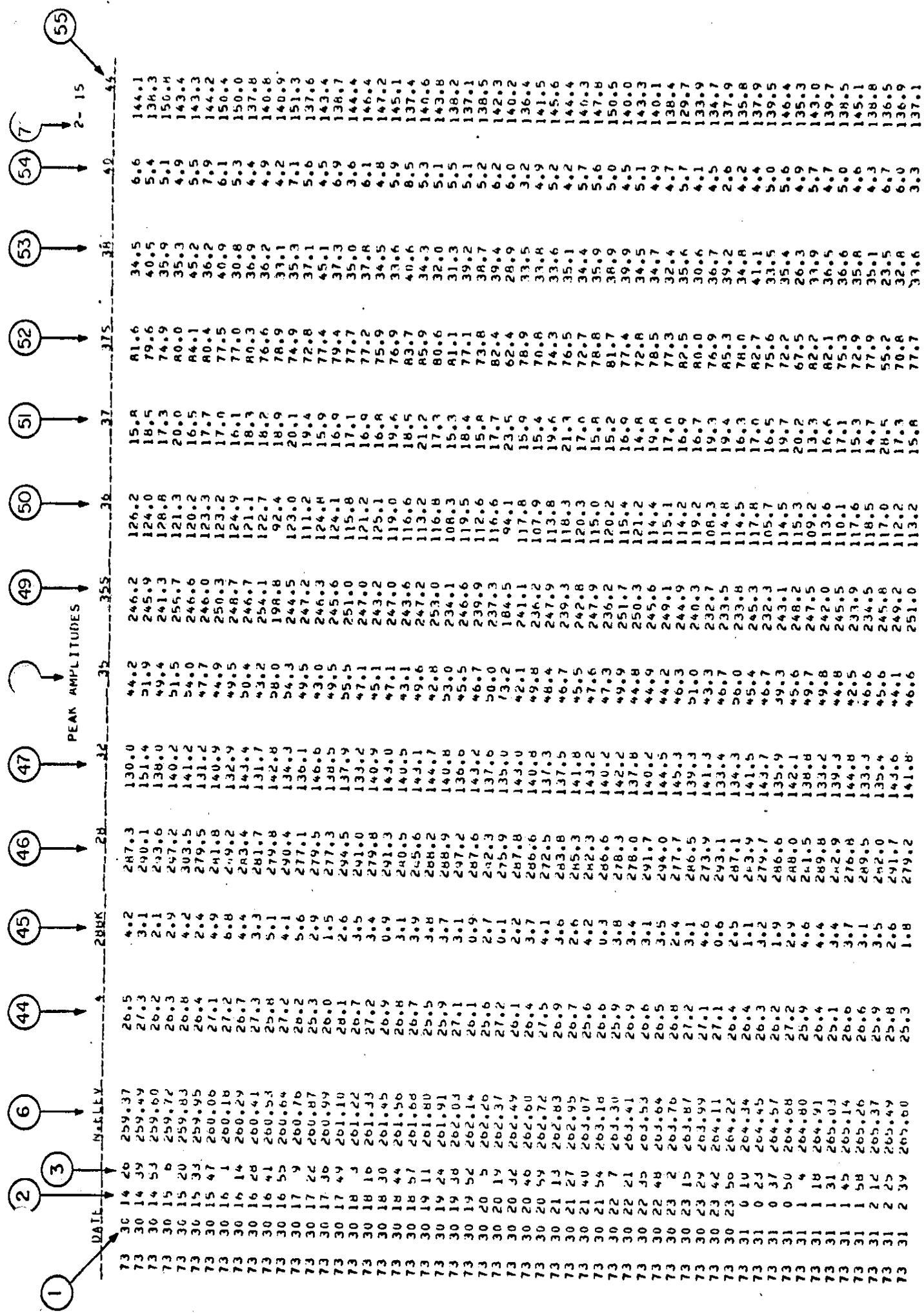
7 = no sync codes

c. Status (words 73 and 74) is a combination of 8 binary encoded flags, each weighted by an appropriate power of 10, so that it prints as a binary format in base 10.

DIGIT (power of 10)	USE
0	Filament (0 = off, 1 = on)
1	Accelerator voltage (0 = off, 1 = on)
2	Backup heater (0 = off, 1 = on)
3	Ion pump (0 = off, 1 = on)
4	Lock/auto flag (0 = lock, 1 = auto)
5	Discriminator level (0 = low, 1 = high)

TABLE 1 (CONT.)

<u>DIGIT (power of 10)</u>	<u>USE</u>
6	Multiplier voltage (0 = low, 1 = high)
7	Filament ID (1 = fil 1, 2 = fil 2)
Normal operating status = 11110011	
d. Sync/status flag (word 77) gives the severity of nonstandard operating condition.	
1 = normal	
2 = spectrum quality flag (word 10) ≠ 2844	
3 = status at start (word 73) ≠ 11110011, or spectrum sync flag (word 11)>2, or filament off at end of spectrum.	
4 = status at start (word 73) = 21110011	
5 = status at start (word 73) = 11010011	



CONCENTRATIONS

DATE	NATLEY	ICE	38	39	40	61		62		63	
						61	62	63	64	65	66
73 30 14 26	259.37	1.578	30554.4	21905.5	21512.6	21512.6	21308.6	2091.1	1147.9	941.3	941.3
73 30 14 39	259.49	1.578	31498.9	30226.2	22347.0	22347.0	21607.3	6229.9	6229.9	882.5	882.5
73 30 14 53	259.60	1.578	30416.2	30881.2	21046.2	21046.2	21406.9	6121.0	6121.0	844.4	844.4
73 30 15 6	259.72	1.578	30560.4	30530.6	20855.7	20855.7	21406.9	7850.9	7850.9	950.9	950.9
73 30 15 20	259.63	1.578	30530.6	30530.6	21406.9	21406.9	21308.6	6277.6	6277.6	1372.4	1372.4
73 30 15 33	259.95	1.578	29809.7	29809.7	21308.6	21308.6	21308.6	7091.1	7091.1	1051.2	1051.2
73 30 15 47	260.06	1.578	31355.9	31442.0	21607.3	21607.3	21607.3	5348.8	5348.8	919.3	919.3
73 30 16 1	260.18	1.578	32502.1	30881.2	21426.7	21426.7	21426.7	6408.3	6408.3	769.8	769.8
73 30 16 14	260.29	1.578	29259.1	29259.1	21603.9	21603.9	21603.9	7825.9	7825.9	847.8	847.8
73 30 16 28	260.41	1.578	31525.7	30111.5	21308.6	21308.6	21308.6	6278.8	6278.8	1194.6	1194.6
73 30 16 41	260.53	1.578	29809.7	16044.2	16044.2	16044.2	16044.2	5739.8	5739.8	723.7	723.7
73 30 16 55	260.64	1.578	31451.6	32502.1	21347.1	21347.1	21347.1	6127.1	6127.1	1224.8	1224.8
73 30 17 9	260.76	1.578	19302.3	31410.0	21733.3	21733.3	21733.3	6437.6	6437.6	967.2	967.2
73 30 17 22	260.87	1.578	21603.9	31480.1	20661.0	20661.0	20661.0	5836.2	5836.2	1018.4	1018.4
73 30 17 36	260.99	1.579	30973.7	30973.7	20255.0	20255.0	20255.0	7043.8	7043.8	1475.1	1475.1
73 30 17 49	261.10	1.579	32416.3	30840.3	19657.0	19657.0	19657.0	6072.0	6072.0	628.4	628.4
73 30 18 3	261.22	1.579	30819.3	31435.4	21045.2	21045.2	21045.2	6570.5	6570.5	1056.5	1056.5
73 30 18 16	261.33	1.579	31410.0	31480.1	21733.3	21733.3	21733.3	5994.7	5994.7	835.3	835.3
73 30 18 30	261.45	1.579	31680.1	31680.1	20661.0	20661.0	20661.0	5836.2	5836.2	1018.4	1018.4
73 30 18 44	261.56	1.579	30973.7	30973.7	19654.1	19654.1	19654.1	7043.8	7043.8	1475.1	1475.1
73 30 18 57	261.68	1.579	32416.3	30840.3	19657.0	19657.0	19657.0	5953.9	5953.9	915.0	915.0
73 30 19 11	261.80	1.579	29435.4	29435.4	20254.5	20254.5	20254.5	5549.5	5549.5	891.2	891.2
73 30 19 24	261.91	1.579	29968.4	31272.2	20661.0	20661.0	20661.0	5435.2	5435.2	951.7	951.7
73 30 19 38	262.03	1.579	31272.2	31272.2	19654.1	19654.1	19654.1	6813.1	6813.1	894.5	894.5
73 30 19 52	262.14	1.579	30221.6	30221.6	19654.1	19654.1	19654.1	6722.5	6722.5	897.7	897.7
73 30 20 15	262.26	1.579	29575.6	29575.6	20254.5	20254.5	20254.5	6838.0	6838.0	1080.8	1080.8
73 30 20 29	262.37	1.579	31438.3	31438.3	16353.1	16353.1	16353.1	5024.9	5024.9	1041.0	1041.0
73 30 20 42	262.49	1.579	30119.5	30119.5	18616.3	18616.3	18616.3	5821.8	5821.8	549.2	549.2
73 30 20 56	262.60	1.580	30520.8	30520.8	18747.0	18747.0	18747.0	5841.0	5841.0	843.7	843.7
73 30 20 70	262.72	1.580	31750.9	31750.9	19706.5	19706.5	19706.5	5842.2	5842.2	912.2	912.2
73 30 21 13	262.83	1.580	31120.2	31120.2	20559.4	20559.4	20559.4	6104.9	6104.9	726.0	726.0
73 30 21 27	262.97	1.580	30925.0	30925.0	20902.8	20902.8	20902.8	5976.0	5976.0	985.5	985.5
73 30 21 40	263.07	1.580	29569.6	30746.6	19978.7	19978.7	19978.7	6237.1	6237.1	971.2	971.2
73 30 21 54	263.18	1.580	30746.6	30746.6	20873.6	20873.6	20873.6	6764.5	6764.5	871.0	871.0
73 30 22 7	263.30	1.580	30000.2	30000.2	20001.3	20001.3	20001.3	6939.4	6939.4	777.1	777.1
73 30 22 21	263.41	1.580	31077.1	31077.1	21069.2	21069.2	21069.2	5988.7	5988.7	866.6	866.6
73 30 22 35	263.53	1.580	30720.0	30720.0	19803.8	19803.8	19803.8	6024.1	6024.1	844.0	844.0
73 30 22 48	263.64	1.580	30652.0	30652.0	20000.5	20000.5	20000.5	5633.8	5633.8	810.6	810.6
73 30 23 1	263.76	1.580	31004.3	31004.3	19856.0	19856.0	19856.0	6196.2	6196.2	992.2	992.2
73 30 23 15	263.87	1.580	31403.8	31403.8	20161.6	20161.6	20161.6	5311.0	5311.0	708.8	708.8
73 30 23 29	263.99	1.580	31283.3	31283.3	19824.7	19824.7	19824.7	6379.7	6379.7	786.8	786.8
73 30 23 42	264.11	1.580	31317.0	31317.0	19928.3	19928.3	19928.3	6822.7	6822.7	444.4	444.4
73 30 23 56	264.22	1.581	30500.8	30500.8	19902.8	19902.8	19902.8	6054.9	6054.9	810.6	810.6
73 31 0 10	264.34	1.581	30409.9	30409.9	20469.0	20469.0	20469.0	7138.0	7138.0	759.9	759.9
73 31 0 23	264.45	1.581	30461.1	30461.1	18372.5	18372.5	18372.5	5829.9	5829.9	863.4	863.4
73 31 0 37	264.57	1.581	30331.2	30331.2	19910.6	19910.6	19910.6	6159.0	6159.0	981.4	981.4
73 31 0 50	264.68	1.581	31505.2	31505.2	20049.5	20049.5	20049.5	4570.6	4570.6	850.8	850.8
73 31 1 4	264.80	1.581	29952.0	19914.4	19914.4	19914.4	19914.4	5898.2	5898.2	987.8	987.8
73 31 1 18	264.91	1.581	30582.1	19757.5	19757.5	19757.5	19757.5	6351.6	6351.6	809.4	809.4
73 31 1 31	265.03	1.581	29017.2	19120.4	19120.4	19120.4	19120.4	6371.0	6371.0	865.2	865.2
73 31 1 45	265.14	1.581	30750.7	20451.0	20451.0	20451.0	20451.0	6221.8	6221.8	801.5	801.5
73 31 1 58	265.26	1.581	30759.7	20612.9	20612.9	20612.9	20612.9	6103.9	6103.9	750.6	750.6
73 31 2 12	265.37	1.581	30004.9	30004.9	20004.9	20004.9	20004.9	4092.4	4092.4	1164.9	1164.9
73 31 2 25	265.49	1.581	29848.1	19515.5	19515.5	19515.5	19515.5	5699.1	5699.1	1039.1	1039.1
73 31 2 39	265.60	1.581	29258.9	19678.9	19678.9	19678.9	19678.9	5845.1	5845.1	576.9	576.9

INTEGRATION
(msec) TIME.

76

2-15

7 8 9 66 67 70 73 74 75 76

	DALE	NATIY-AEIN-ANISH	ICE	IMON	LIVNS	IASTE	THADP-MELAG	EMDAPBLE-SYCE-MEQ	LAAS-SALIN
73	30 14 20	259.37	206.34	156.19	1.578	108.12	-2.59	-81.68	-7.96 2844
73	30 14 39	259.49	206.09	156.25	1.578	108.71	-2.59	-81.68	0 0 603.00
73	30 14 53	259.60	205.84	156.30	1.578	108.70	-2.59	-81.68	0 0 603.00
73	30 15 6	259.72	205.59	156.35	1.578	108.69	-2.59	-81.68	0 0 603.00
73	30 15 20	259.43	205.34	156.41	1.578	108.68	-2.59	-81.68	0 0 603.00
73	30 15 33	259.95	205.09	156.46	1.578	108.67	-2.59	-81.68	0 0 603.00
73	30 15 47	260.06	204.84	156.51	1.578	108.66	-2.59	-81.68	0 0 603.00
73	30 16 1	260.18	204.59	156.57	1.578	108.65	-2.59	-81.68	0 0 603.00
73	30 16 14	260.29	204.34	156.62	1.578	108.64	-2.59	-81.68	0 0 603.00
73	30 16 28	260.41	204.09	156.67	1.578	108.63	-2.59	-81.68	0 0 603.00
73	30 16 41	260.53	203.84	156.73	1.578	108.62	-2.59	-81.68	0 0 603.00
73	30 16 55	260.64	203.59	156.78	1.578	108.61	-2.59	-81.68	0 0 603.00
73	30 17 9	260.76	203.34	156.83	1.578	108.60	-2.59	-81.68	0 0 603.00
73	30 17 22	260.87	203.09	156.89	1.578	108.59	-2.59	-81.68	0 0 603.00
73	30 17 36	260.99	202.84	156.94	1.578	108.58	-2.59	-81.68	0 0 603.00
73	30 17 49	261.10	202.59	156.99	1.578	108.57	-2.59	-81.68	0 0 603.00
73	30 18 3	261.22	202.34	157.05	1.579	108.56	-2.59	-81.68	0 0 603.00
73	30 18 16	261.33	202.09	157.10	1.579	108.55	-2.59	-81.68	0 0 603.00
73	30 18 30	261.45	201.84	157.15	1.579	108.54	-2.59	-81.68	0 0 603.00
73	30 18 44	261.56	201.59	157.21	1.579	108.53	-2.59	-81.68	0 0 603.00
73	30 18 57	261.66	201.34	157.26	1.579	108.52	-2.59	-81.68	0 0 603.00
73	30 19 11	261.80	201.09	157.32	1.579	108.51	-2.59	-81.68	0 0 603.00
73	30 19 24	261.91	200.84	157.37	1.579	108.50	-2.59	-81.68	0 0 603.00
73	30 19 38	262.03	200.59	157.42	1.579	108.49	-2.59	-81.68	0 0 603.00
73	30 19 52	262.14	200.34	157.48	1.579	108.48	-2.59	-81.68	0 0 603.00
73	30 20 2	262.26	200.09	157.53	1.579	108.47	-2.59	-81.68	0 0 603.00
73	30 20 14	262.37	199.84	157.58	1.579	108.46	-2.59	-81.68	0 0 603.00
73	30 20 32	262.49	199.59	157.64	1.579	108.45	-2.59	-81.68	0 0 603.00
73	30 20 46	262.60	199.34	157.69	1.580	108.44	-2.59	-81.68	0 0 603.00
73	30 20 59	262.72	199.09	157.74	1.580	108.44	-2.59	-81.68	0 0 603.00
73	30 21 13	262.83	198.84	157.80	1.580	108.43	-2.59	-81.68	0 0 603.00
73	30 21 27	262.95	198.59	157.85	1.580	108.42	-2.59	-81.68	0 0 603.00
73	30 21 40	263.07	198.34	157.90	1.580	108.41	-2.59	-81.68	0 0 603.00
73	30 21 54	263.18	198.09	157.96	1.580	108.40	-2.59	-81.68	0 0 603.00
73	30 22 7	263.30	197.83	158.01	1.580	108.39	-2.59	-81.68	0 0 603.00
73	30 22 21	263.41	197.58	158.06	1.580	108.38	-2.59	-81.68	0 0 603.00
73	30 22 35	263.53	197.33	158.12	1.580	108.37	-2.59	-81.68	0 0 603.00
73	30 22 48	263.64	197.08	158.17	1.580	108.36	-2.59	-81.68	0 0 603.00
73	30 23 2	263.76	196.83	158.22	1.580	108.35	-2.59	-81.68	0 0 603.00
73	30 23 15	263.87	196.58	158.28	1.580	108.34	-2.59	-81.68	0 0 603.00
73	30 23 29	263.99	196.33	158.33	1.580	108.33	-2.59	-81.68	0 0 603.00
73	30 23 42	264.11	196.08	158.38	1.580	108.32	-2.59	-81.68	0 0 603.00
73	30 23 56	264.22	195.83	158.44	1.580	108.31	-2.59	-81.68	0 0 603.00
73	31 0 10	264.34	195.54	158.45	1.580	108.30	-2.59	-81.68	0 0 603.00
73	31 0 23	264.45	195.22	158.45	1.580	108.29	-2.59	-81.68	0 0 603.00
73	31 1 31	265.03	193.64	158.44	1.580	108.24	-2.59	-81.68	0 0 603.00
73	31 1 45	265.14	193.33	158.43	1.580	108.23	-2.59	-81.68	0 0 603.00
73	31 1 59	265.26	193.01	158.43	1.580	108.22	-2.59	-81.68	0 0 603.00
73	31 2 12	265.37	192.70	158.43	1.580	108.21	-2.59	-81.68	0 0 603.00
73	31 2 25	265.49	192.38	158.43	1.580	108.20	-2.59	-81.68	0 0 603.00
73	31 2 39	265.60	192.07	158.43	1.580	108.19	-2.59	-81.68	0 0 603.00

DATE	N. LIABILITY	SWEEP HIGH VOLTAGE (AM-44)												
		1	2	3	4	5	6	7	8	9	10	11	12	13
73 30 14 26	259.37	43	49	55	61	67	72	78	84	90	96	107	121	143
73 30 14 39	259.44	43	49	55	61	67	72	78	84	90	96	106	119	143
73 30 14 54	259.60	43	49	55	61	67	72	78	84	90	96	106	119	143
73 30 15 6	259.72	43	49	55	61	67	72	78	84	90	96	106	119	143
73 30 15 20	259.84	43	49	55	61	67	72	78	84	90	96	107	118	143
73 30 15 33	259.95	43	49	55	61	67	72	78	84	90	96	109	121	144
73 30 15 47	260.06	43	49	55	61	67	73	78	85	91	97	106	122	144
73 30 16 1	260.16	43	49	55	61	67	73	78	84	90	96	106	119	143
73 30 16 14	260.24	43	49	55	61	67	72	78	87	94	106	119	141	167
73 30 16 26	260.41	43	49	55	61	67	72	78	84	90	96	108	121	142
73 30 16 41	260.53	43	49	55	61	67	73	78	85	91	97	108	121	142
73 30 16 55	260.64	43	49	55	61	67	73	78	84	90	96	109	120	142
73 30 17 9	260.76	43	49	55	61	67	73	78	84	90	96	109	121	143
73 30 17 22	260.87	43	49	55	61	67	72	78	84	90	96	106	121	143
73 30 17 36	260.99	43	49	55	61	67	73	78	85	91	97	107	121	143
73 30 17 49	261.10	43	49	55	61	67	73	78	84	90	96	108	121	143
73 30 18 3	261.22	43	49	55	61	67	73	78	84	90	96	107	121	142
73 30 18 16	261.33	43	49	55	61	67	73	78	84	90	96	106	120	143
73 30 18 30	261.45	43	49	55	61	67	73	78	84	90	96	106	120	143
73 30 18 44	261.56	43	49	55	61	67	73	78	84	90	96	106	120	143
73 30 18 57	261.68	43	49	55	61	67	72	78	84	90	96	110	121	143
73 30 19 11	261.80	43	49	55	61	67	73	78	84	90	96	108	118	143
73 30 19 24	261.91	43	49	55	61	67	73	78	84	90	96	105	119	142
73 30 19 38	262.03	43	49	55	61	67	73	78	84	90	96	105	120	143
73 30 19 52	262.14	43	49	55	61	67	73	78	84	90	96	106	119	141
73 30 20 5	262.26	43	49	55	61	67	72	78	84	90	96	107	121	142
73 30 20 19	262.37	43	49	55	61	67	73	78	85	91	97	106	120	142
73 30 20 32	262.49	43	49	55	61	67	73	78	85	91	97	107	118	141
73 30 20 46	262.60	43	49	55	61	67	73	78	84	90	96	107	121	142
73 30 20 59	262.72	43	49	55	61	67	73	78	84	90	96	108	120	143
73 30 21 13	262.83	43	49	55	61	67	72	78	84	90	96	107	118	143
73 30 21 27	262.95	43	49	55	61	67	73	78	84	90	96	107	119	143
73 30 21 40	263.07	43	49	55	61	67	72	78	85	91	97	106	119	142
73 30 21 54	263.18	43	49	55	61	67	73	78	84	90	96	107	118	141
73 30 22 7	263.30	43	49	55	61	67	73	78	84	90	96	106	119	143
73 30 22 21	263.41	43	49	55	61	67	73	78	85	91	97	107	121	143
73 30 22 35	263.54	43	49	55	61	67	72	78	84	90	96	106	119	143
73 30 22 48	263.64	43	49	55	61	67	73	78	85	91	97	107	121	143
73 30 23 2	263.76	43	49	55	61	67	73	78	84	90	96	106	120	142
73 30 23 15	263.87	43	49	55	61	67	73	78	84	90	96	106	118	142
73 30 23 29	263.99	43	49	55	61	67	73	78	85	91	97	107	121	141
73 30 23 42	264.11	43	49	55	61	67	73	78	84	90	96	106	119	143
73 30 23 55	264.22	43	49	55	61	67	73	78	85	91	97	107	120	143
73 31 0 10	264.34	43	49	55	61	67	73	78	84	90	96	106	120	140
73 31 0 23	264.45	43	49	55	61	67	72	78	84	90	96	106	120	140
73 31 0 37	264.57	43	49	55	61	67	73	78	84	90	96	107	118	141
73 31 0 50	264.68	43	49	55	61	67	73	78	84	90	96	106	119	142
73 31 1 4	264.80	43	49	55	61	67	73	78	84	90	96	106	119	143
73 31 1 18	264.91	43	49	55	61	67	73	78	85	91	97	107	120	143
73 31 1 31	265.03	43	49	55	61	67	73	78	85	91	97	106	120	143
73 31 2 39	265.60	43	49	55	61	67	72	78	84	90	96	104	121	142

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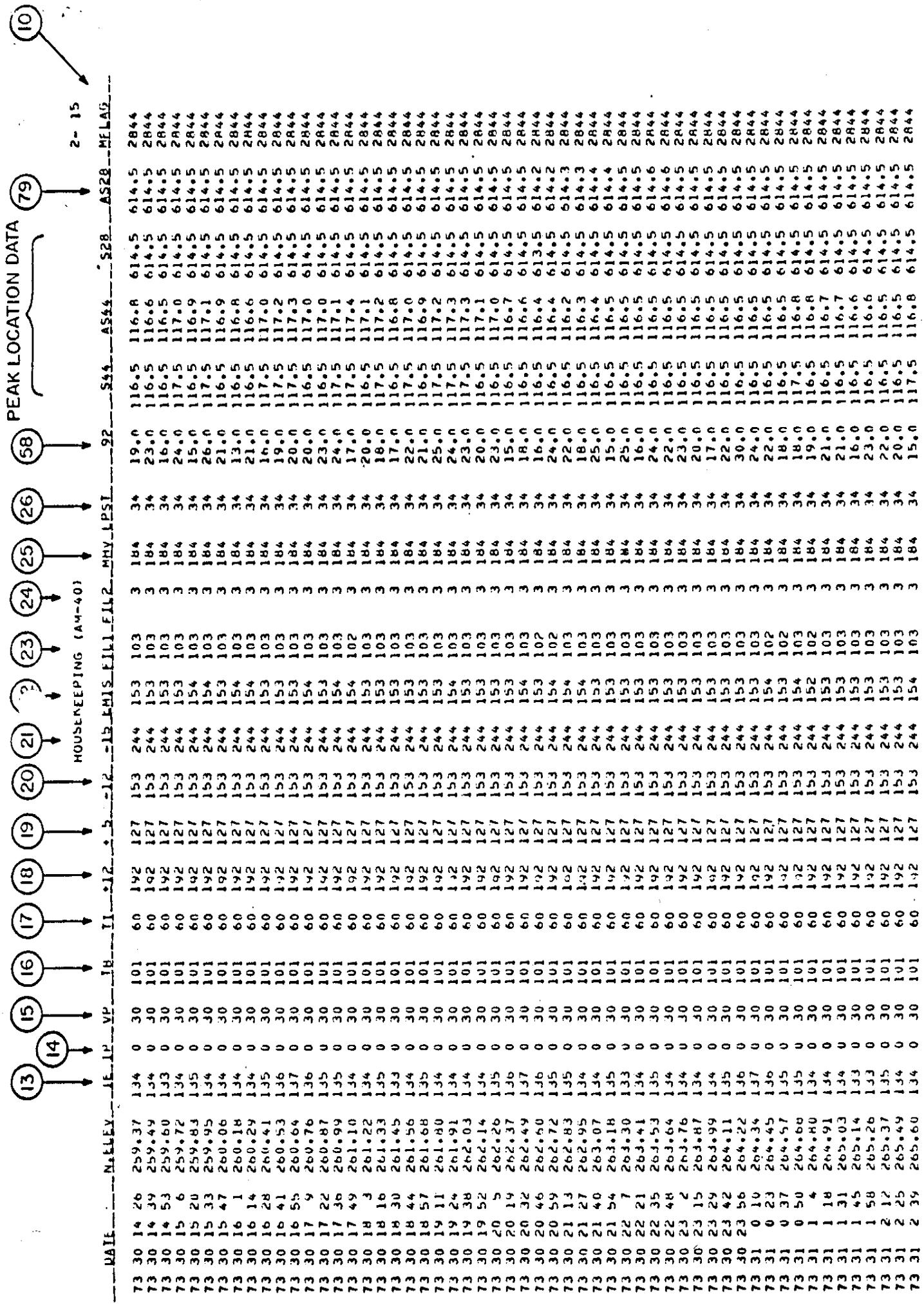
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IEF3741 STEP /LINK RETURN STOP = 76062-2021 CPJ QMIN 01.22SEC MAIN 130K LGS TIME=0K
 STEP 2 - RETURN CODE = 0000 IN SECS* DISK= 10.30.DRUM= *20 MINS=CPU= .002.10= .17
 * 0000230 0000250
 XXGO EXEC PGM=*,DDN=LINK,SYSLMOD,COND=(4,LT),REGION=70K
 XXEIC5FCC1 DD DNAME=DATAS
 XXFTGFC01 DD SYSOUT=SDOUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=BLKSIZE)
 1 IEF6531 SUBSTITUTION JCL = SYSOUT=A,DC3=(RECFM=VBA,LRECL=137,BLKSIZE=7265)
 1 XXSYSPRINT DD SYSOUT=SDOUT,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=BLKSIZE)
 1 IEF6531 SUBSTITUTION JCL = SYSOUT=A,DCB=(RECFM=VBA,LRECL=137,BLKSIZE=7265),
 1 XX SPARE UNIT=9TRACK,DISP=(OLD,KEEP),LABEL=(01.NL.,IN),
 1 //GO=F108F01 DD UNIT=DISK3,
 1 // DCB=(BLKSIZE=32000,RECL=31,RECML=31,
 1 // GO-DATAS DD * VOL=SER=JJ0CB6
 13 //
 14 IEF2371 ALL DC. FOR YZJRJMG1 GO
 15 IEF2371 232 ALLOCATED TO PGM=*,DD
 16 IEF2371 332 ALLOCATED TO FT05F01
 16 IEF2371 332 ALLOCATED TO FT06F01
 17 IEF2371 331 ALLOCATED TO SYSPRINT
 18 IEF2371 232 ALLOCATED TO SYSPRINT
 19 IEF2371 232 ALLOCATED TO SYSPRINT
 20 IEF2371 503 ALLOCATED TO F108F01
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RECORD > 586 OF FILE LENGTH = 323 BYTES 1

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 1 IEF1421 - STEP WAS EXECUTED - COND CODE 0600
 2 IEF2851 - SYS7602.T060736.RV000.YZJRJMG1.L00MOD PASSED
 3 IEF2851 VOL SER NOS=K3SCR3.SYS76062.T060736.RV000.YZJRJMG1.S0001034 SYIN
 4 IEF2851 VOL SER NOS=K3SCR3.SYS76062.T060736.RV000.YZJRJMG1.S0001034 DELETE
 5 IEF2851 VOL SER NOS=K3SCR3.SYS76062.T060736.RV000.YZJRJMG1.S0001034 SYINIT

```

IEF3731 STEP 01 GO / START 76062.2021 CPU QMIN C4.17SEC MAIN-
IEF3741 STEP 02 GO / STOP 76062.2023 RETURN CODE = 0000

IE-2851 VUL SER NUS= K3SCR3 *
SC 1EFG31 JOB /YZJRJMG1/ START 76062-2012
SI REF3761 JOB /YZJRJMG1/ STOP T6062-2023 CPJ 0MIN 97.99 SE
SI MVT-21 (11-21-73) K3
SI -
SI JOB 0147-
SI
SI THERE WERE 23 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE
SI TO IN SEC'S. DISK=

S. 1

14 *